

## PROJECT DESCRIPTION

### GENERAL

THIS PROJECT INVOLVES THE FULL RECONSTRUCTION OF THE TRAFFIC SIGNAL WITH INTERSECTION LIGHTING, ACCESSIBLE PEDESTRIAN SIGNALS (APS), COUNTDOWN PEDESTRIAN SIGNALS (CPS) AND ADA RAMP MODIFICATIONS AT THE INTERSECTION OF MD 355 (FREDERICK ROAD) AND GUNNERS BRANCH ROAD IN MONTGOMERY COUNTY. MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

### INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULLY-TRAFFIC-ACTIVATED MODE. THE MAINLINE EXCLUSIVE-PERMISSIVE LEFT TURNS AS WELL AS THE MAINLINE AND ALTERNATE SIDE STREET PEDESTRIAN PHASES SHALL REMAIN.

### CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSSES IN A NEMA SIZE "S" BASE MOUNTED CABINET. THE MONTGOMERY COUNTY SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT AND ALL OTHER ASSOCIATED EQUIPMENT AND HARNESSSES WITHIN THE CABINET.

### APS WILL FUNCTION AS FOLLOWS:

TO CROSS GUNNERS BRANCH ROAD

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS GUNNERS BRANCH AT FREDERICK, WAIT".
- WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS FREDERICK ROAD

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS FREDERICK AT GUNNERS BRANCH AND SHOPPING CENTER, WAIT".
- WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS SHOPPING CENTER ENTRANCE AT FREDERICK ROAD

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS SHOPPING CENTER AT FREDERICK, WAIT".
- WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

### SPECIAL NOTES

- MONTGOMERY COUNTY SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO CONTROLLER CABINET. THE APS PUSH BUTTONS SHALL BE PROGRAMMED BY THE MANUFACTURER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 72 HOURS IN ADVANCE OF INTENDED WORK.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Felecia Murphy  
Assistant District Engineer - Traffic  
Phone: 301-513-7404

Mr. Victor Grafton  
District Utility Engineer  
Phone: 301-513-7350

Mr. Mark Shaffer  
Assistant District Engineer - Maintenance  
Phone: 301-513-7304

OFFICE OF TRAFFIC AND SAFETY:

**Vacant**  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Chief Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Chief Sign Operations  
410-787-7670

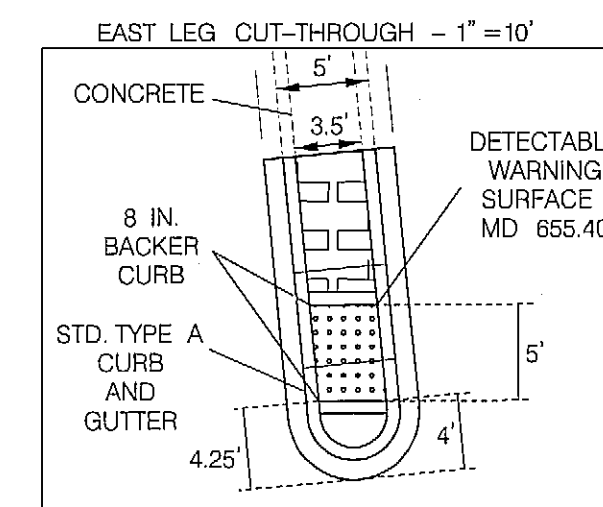
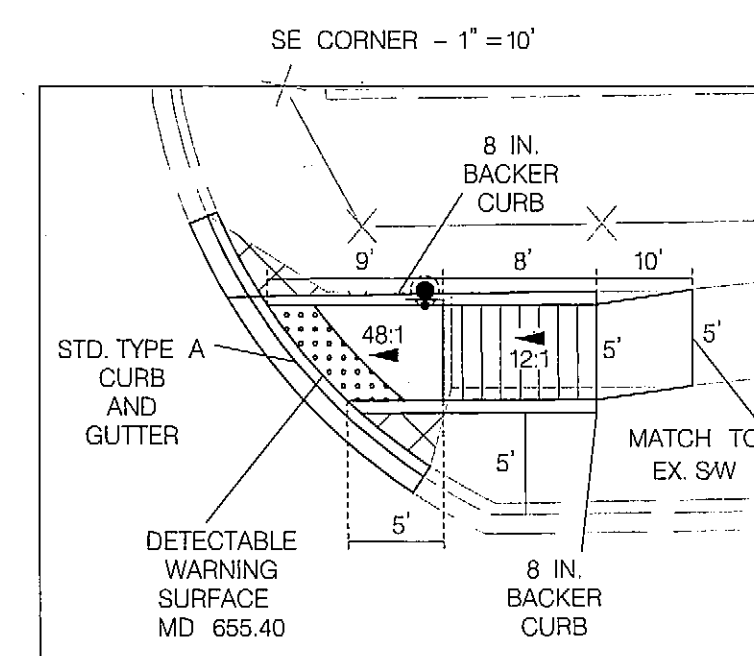
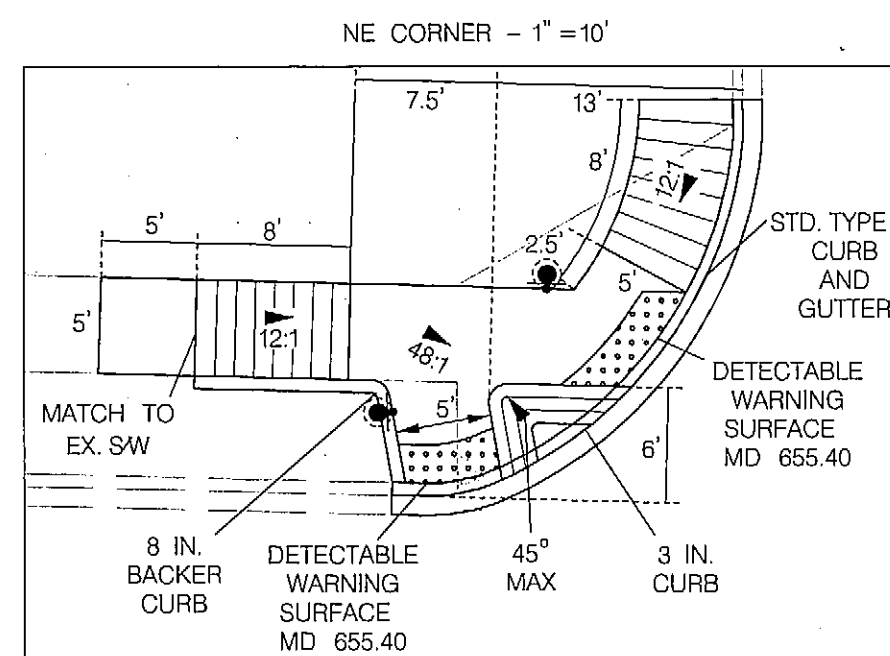
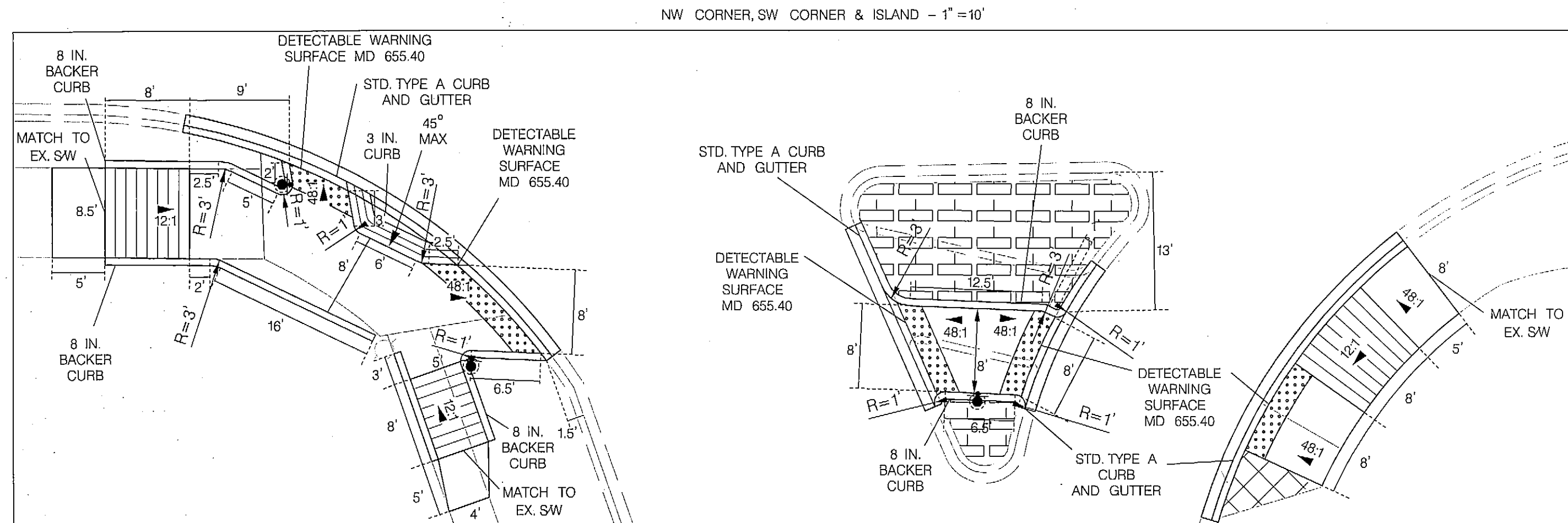
MONTGOMERY COUNTY:

Mr. Kamal Hamud  
Traffic Engineering  
240-777-8761

Mr. Bob Ricketts  
Signal Shop  
301-279-1975

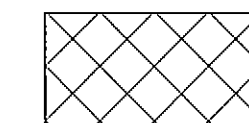
The Power Company Is:  
PEPCO  
Ms. Cheryl Hunt  
201 W. Gude Drive  
Rockville, MD 20850  
Phone: 301-548-4329

## ADA SIDEWALK RAMP DETAILS



TOD NO: XX439-20  
SHA NO: M0242B58  
MD 355; Gunners Branch Rd/Fox  
Chapel Shopping Center

SIDEWALK REMOVAL



A NO. 6 AWG STRANDED BARE  
COPPER GROUND WIRE

B, C, D, E  
ELECTRICAL CABLE - 7  
CONDUCTOR (NO. 14 AWG)

K, P, L, M, R, S, O, T  
ELECTRICAL CABLE - 5  
CONDUCTOR (NO. 14 AWG)

U, X, V, Y, Z  
ELECTRICAL CABLE - 2  
CONDUCTOR (NO. 14 AWG)

bb ELECTRICAL CABLE - 2  
CONDUCTOR (NO. 12 AWG), TC

cc, dd, ee, ff, gg, hh  
CONTROL CABLE - VIDEO DETECTION  
CAMERA TO CONTROLLER

jj, kk, ll  
ELECTRICAL CABLE 1 - CONDUCTOR  
NO. 8 AWG-THN/THWN

mm PULL BACK EX. INTERCONNECT CABLE -  
FROM MIDDLEBROOK RD

nn RE-ROUTE EX. INTERCONNECT CABLE -  
FROM MIDDLEBROOK RD

oo PULL BACK EX. INTERCONNECT CABLE -  
FROM PLUMMER DR

pp RE-ROUTE EX. INTERCONNECT CABLE -  
FROM PLUMMER DR

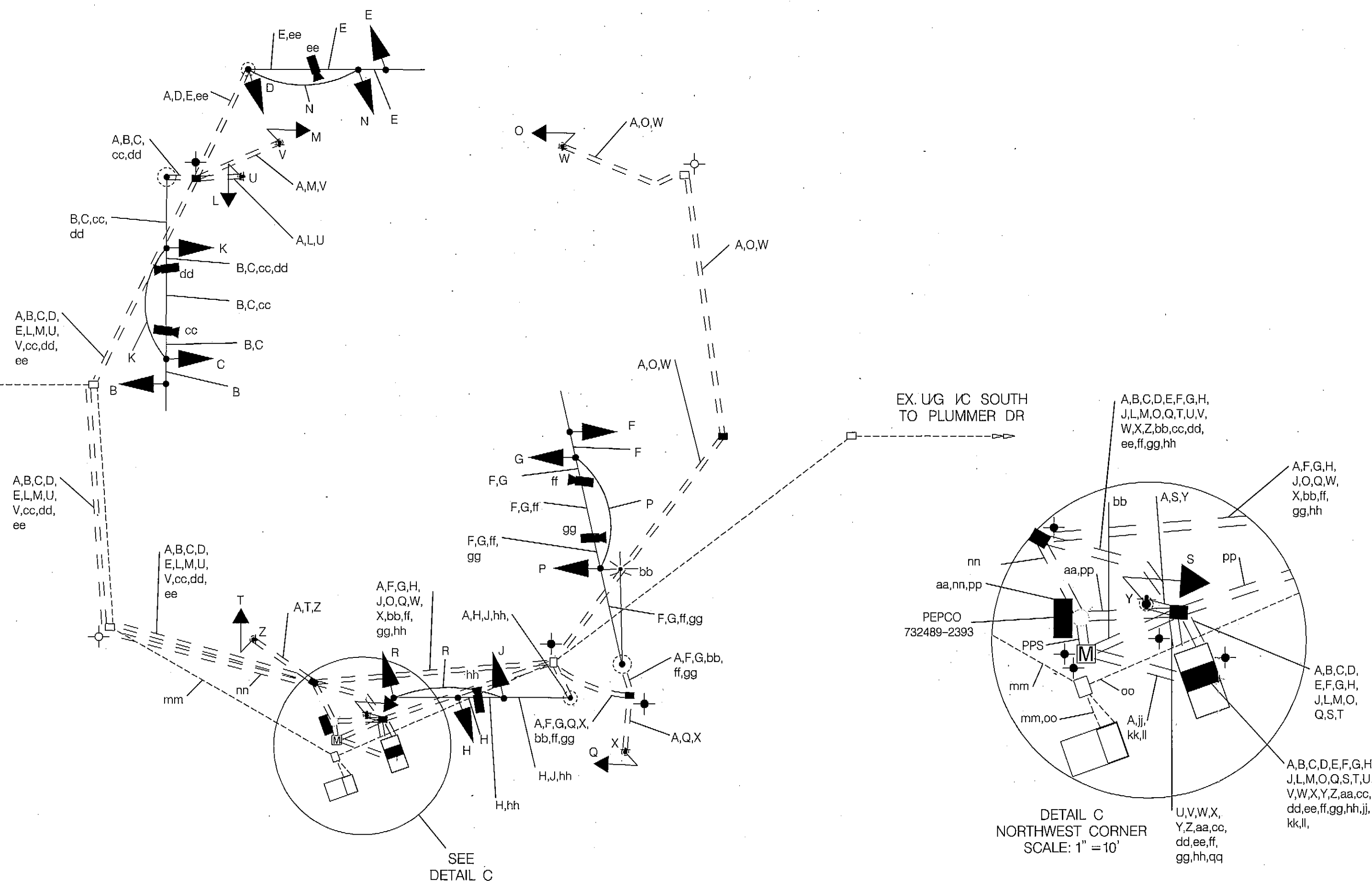
qq 12-PAIR COMMUNICATION CABLE, JELLY-  
FILLED/UNDERGROUND

rr PROPOSED UNDERGROUND POWER SERVICE  
1-CONDUCTOR ELECTRICAL CABLE, NO. 2/0  
AWG/THHN

ss EXISTING GROUND ROD - 3/4 INCH  
DIAMETER X 10 FOOT LENGTH

tt PROPOSED GROUND ROD - 3/4 INCH  
DIAMETER X 10 FOOT LENGTH

## WIRING DIAGRAM (NOT TO SCALE)



DETAIL C  
NORTHWEST CORNER  
SCALE: 1" = 10'

<b>SHA</b>		STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION	
		OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
		MD 355 (FREDERICK ROAD) AT GUNNERS BRANCH ROAD/ FOX CHAPEL SHOPPING CENTER GERMANTOWN, MARYLAND	
<b>GENERAL INFORMATION SHEET (1 OF 2)</b>			
SCALE NONE		ADVERTISED DATE 03/2012 CONTRACT NO. XX4395185	
DESIGNED BY KXT		COUNTY MONTGOMERY	
DRAWN BY KXT		LOGMILE 15035517.82	
CHECKED BY MTS		TIMS NO. K909	
F.A.P. NO.		TOD NO.	
TS NO. 3395B-GI		DRAWING SG-02 OF 03	
		SHEET NO. 02 OF 03	